

FIG.1

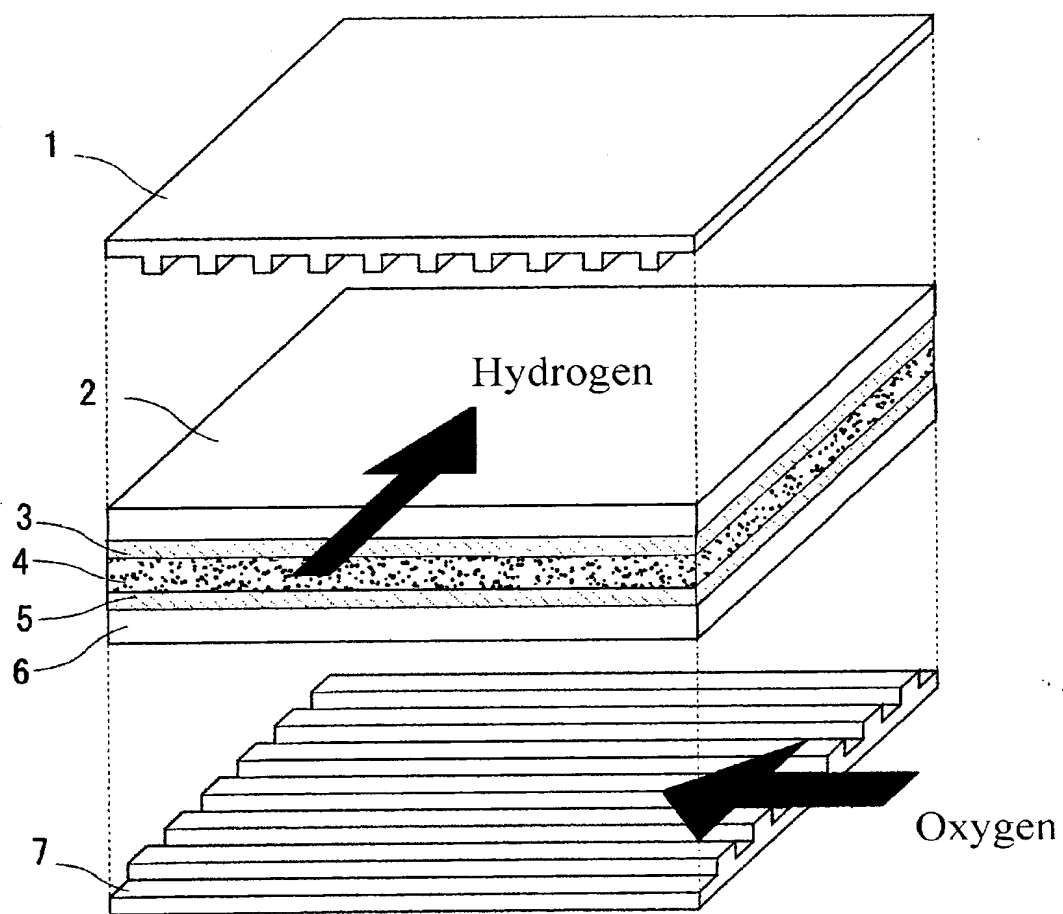


FIG.2

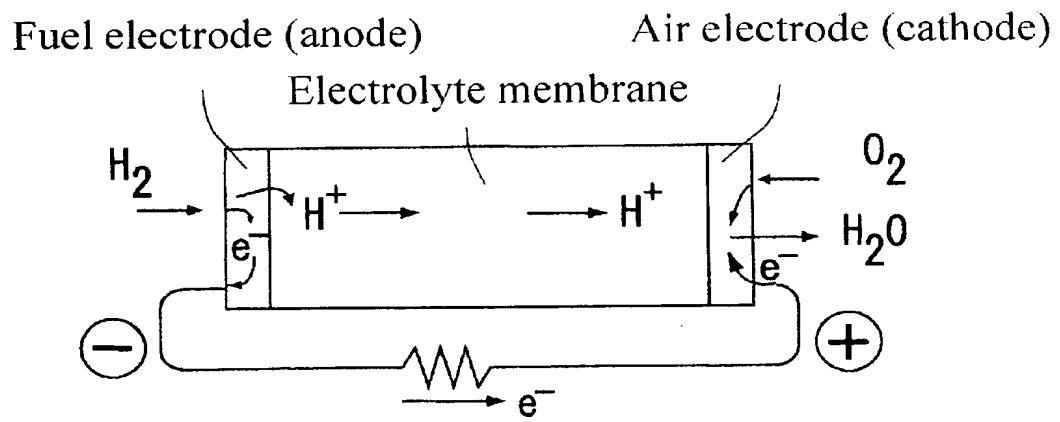
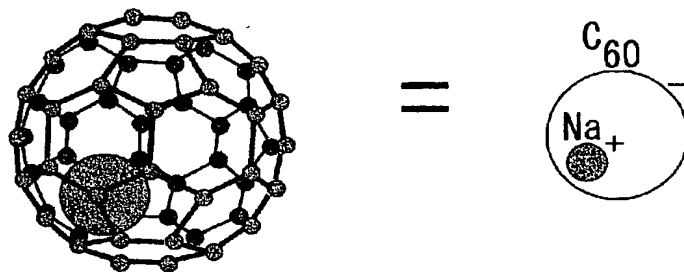


FIG.3

(a) Na@C₆₀

(b) Electrolyte membrane

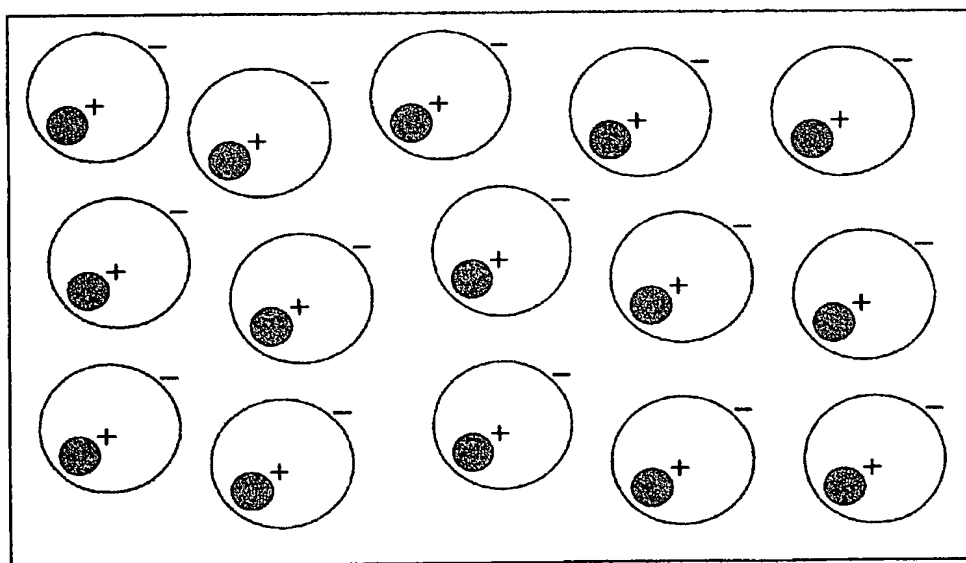


FIG.4

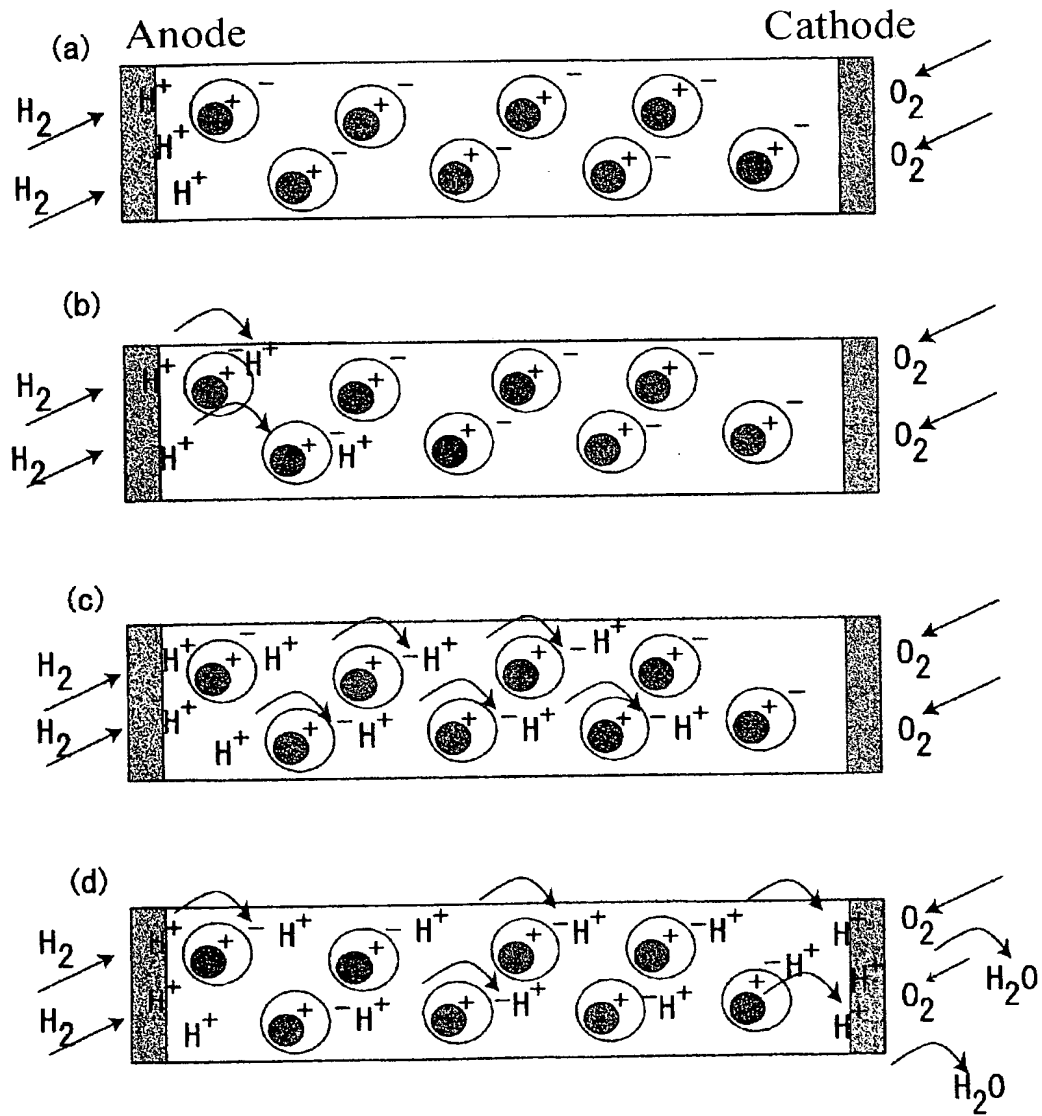
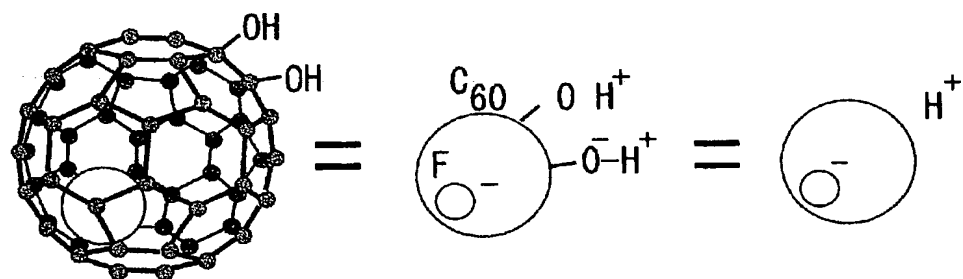


FIG.5

(a) $F@C_{60}(OH)_2$ 

(b) Electrolyte membrane

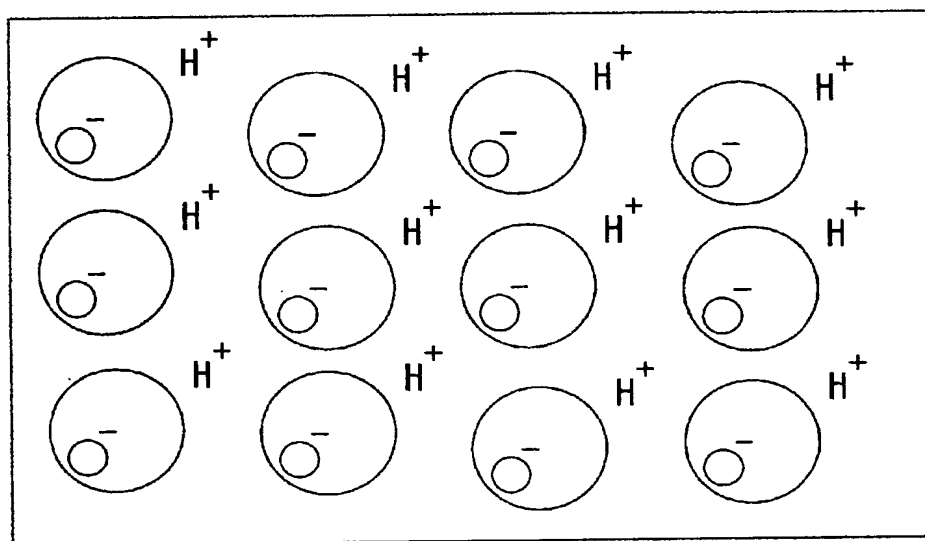


FIG.6

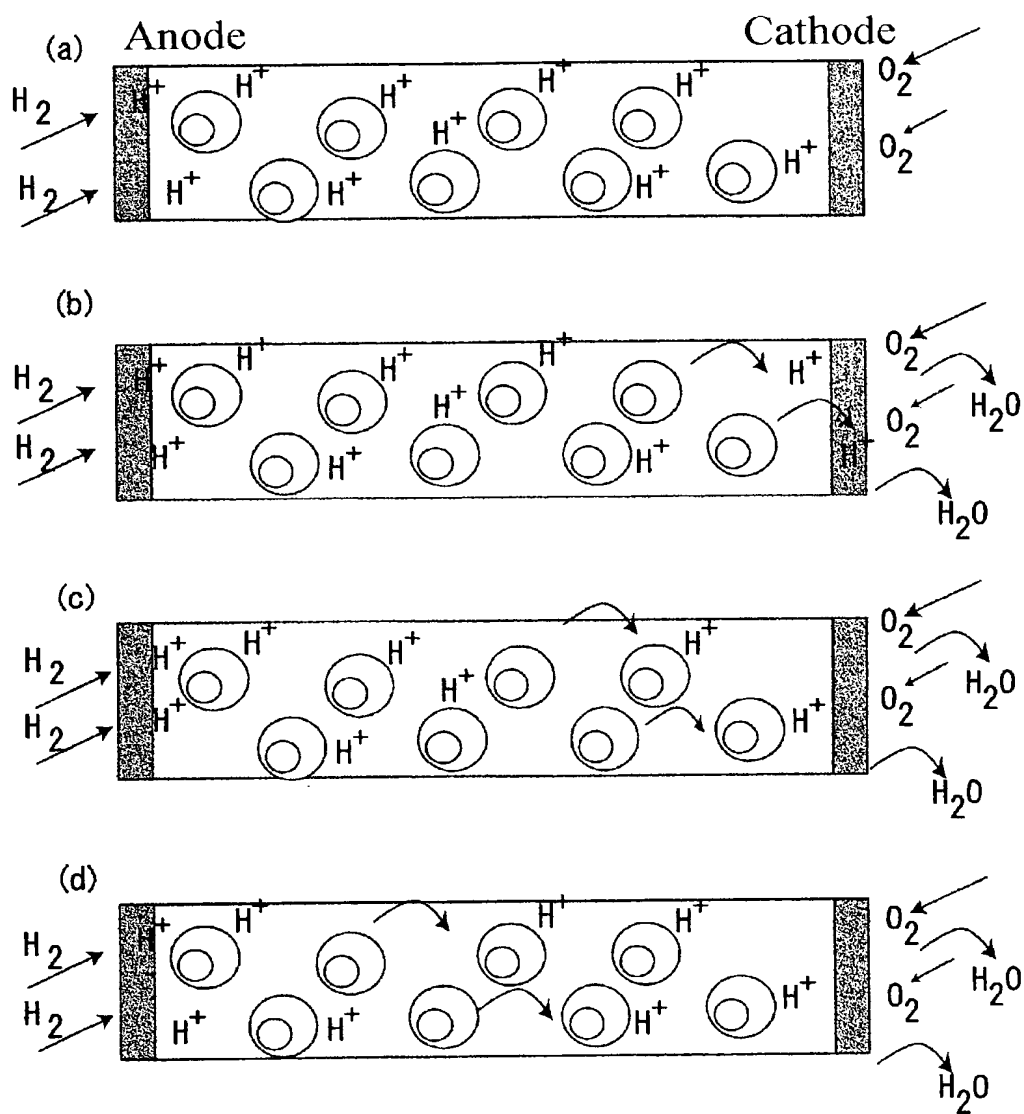
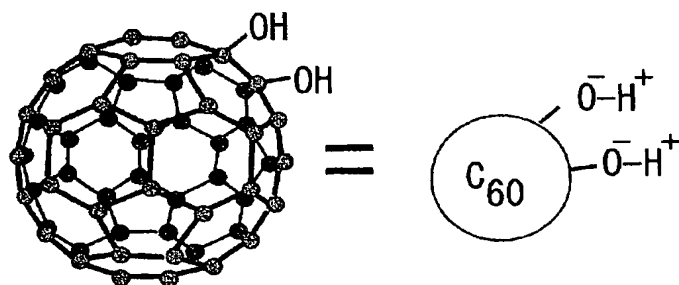


FIG. 7

(a) $C_{60}(OH)_2$ 

(b) Electrolyte membrane

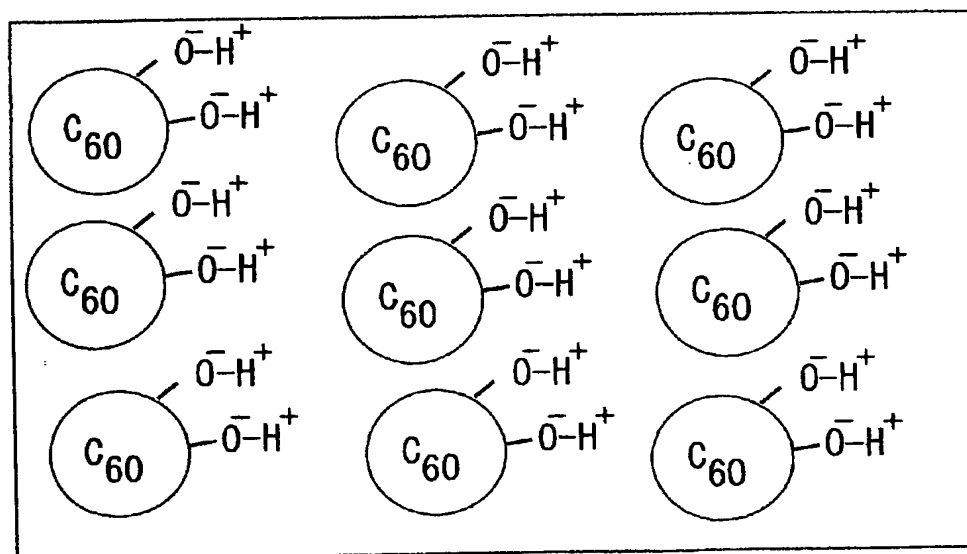


FIG.8

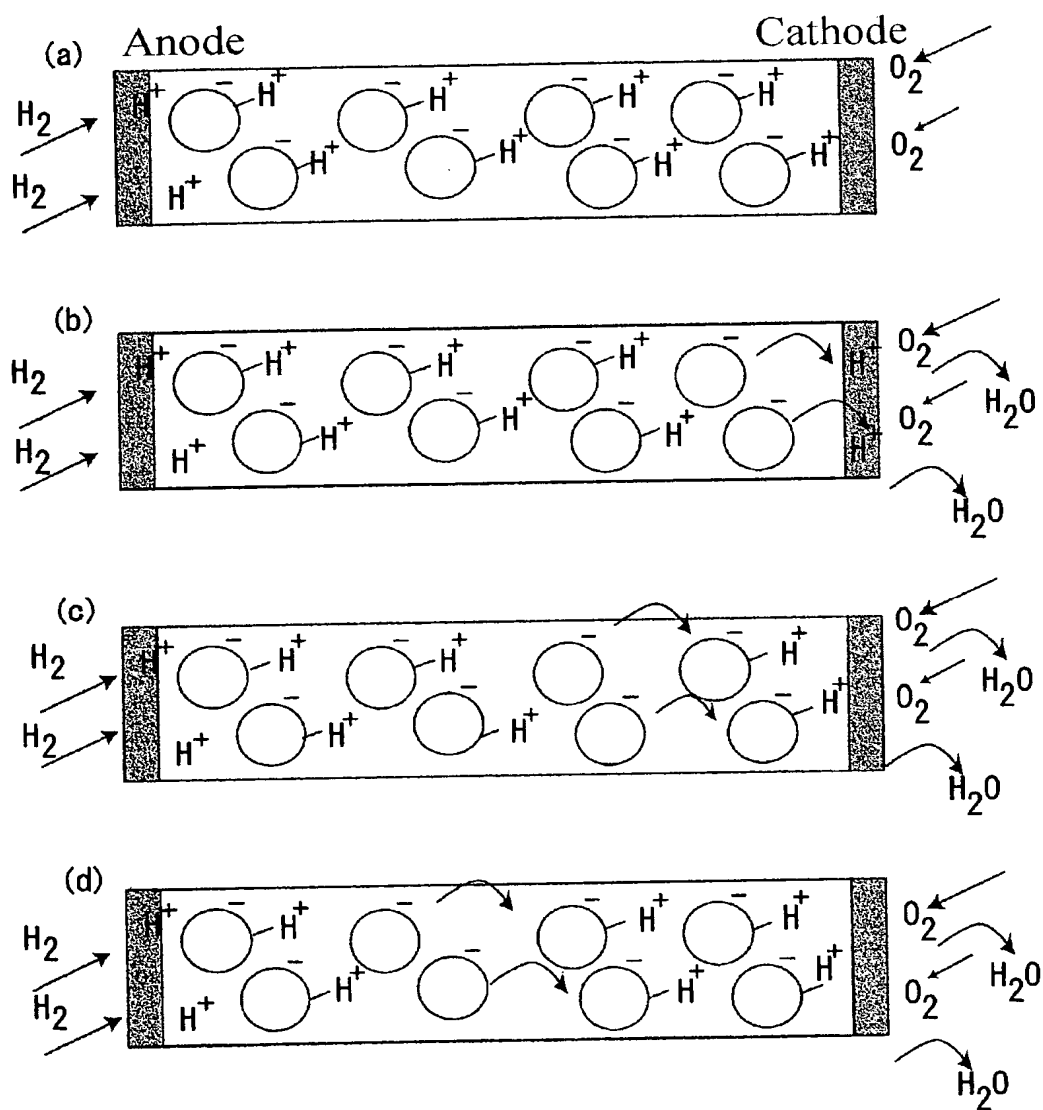
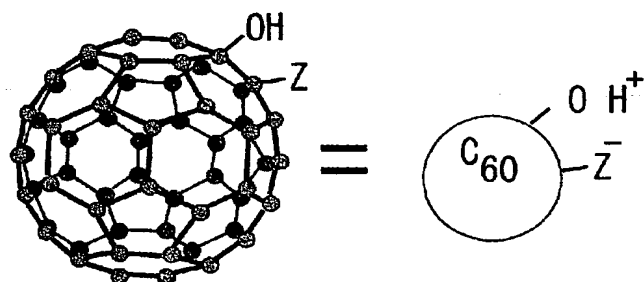


FIG.9

(a) $C_{60}(OH)Z$ 

(b) Electrolyte membrane

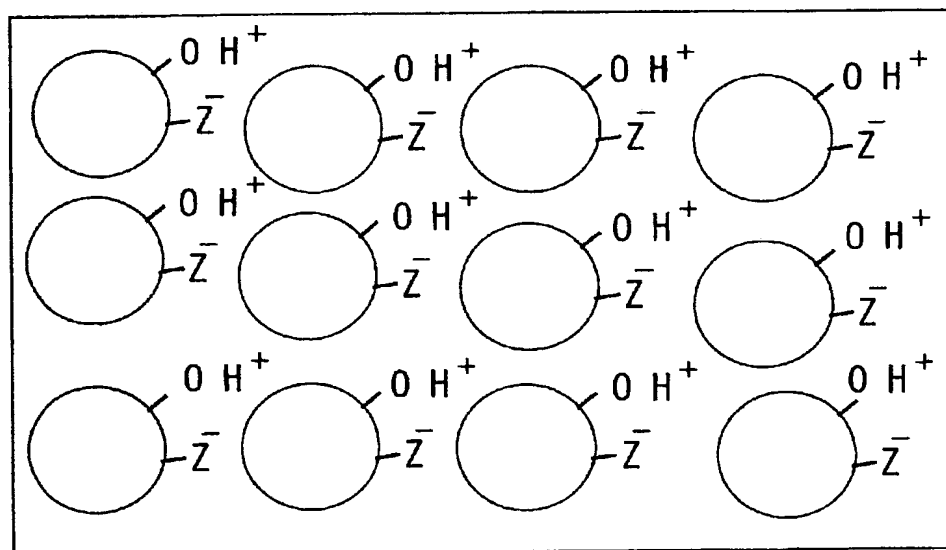


FIG.10

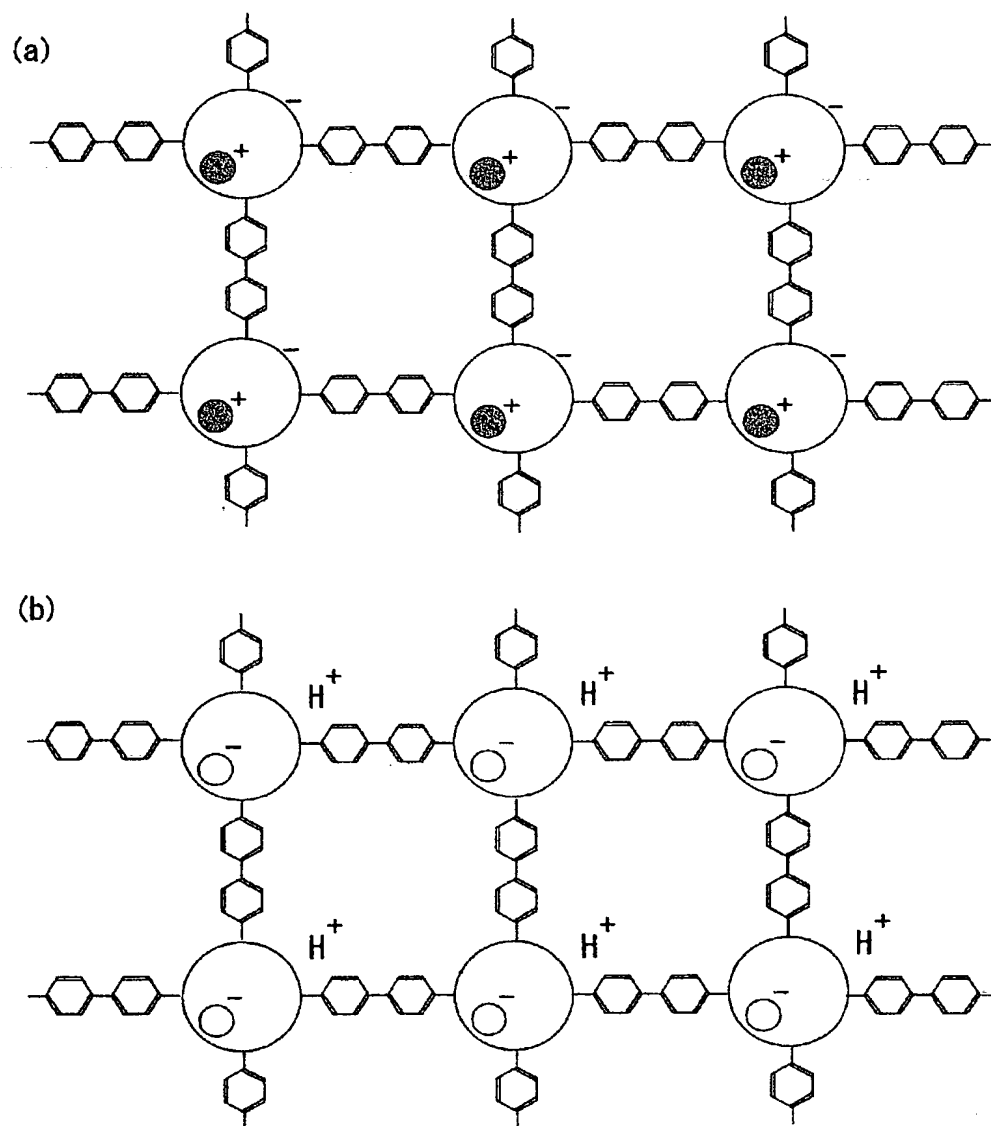
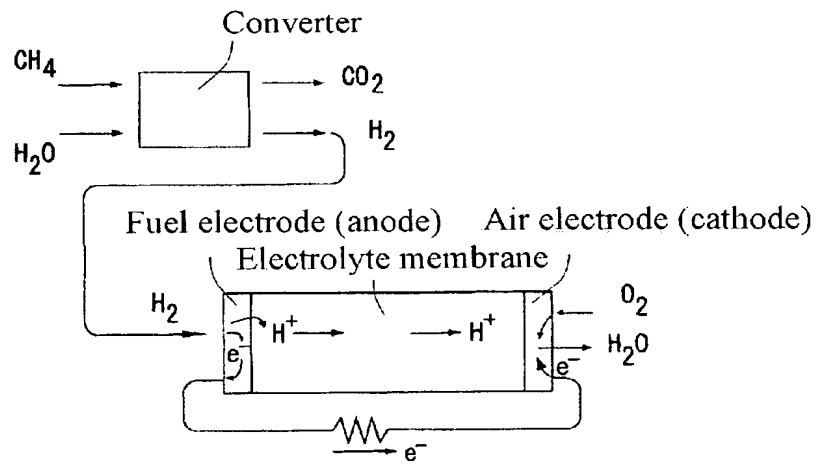
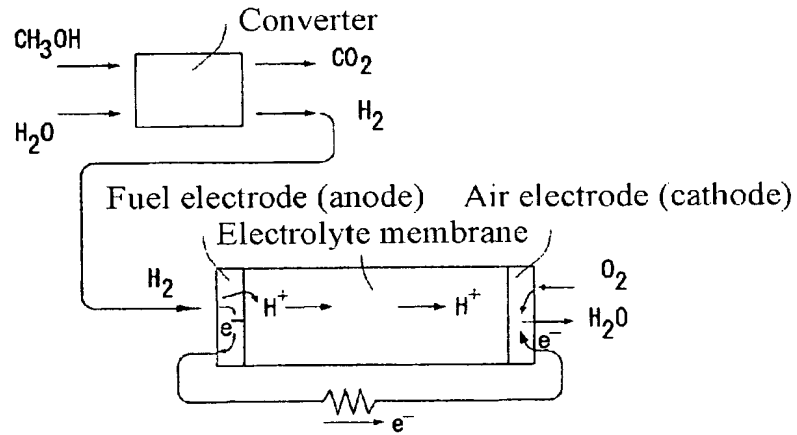


FIG.11

(a) Converted methane type



(b) Converted methanol type



(c) Direct methanol type

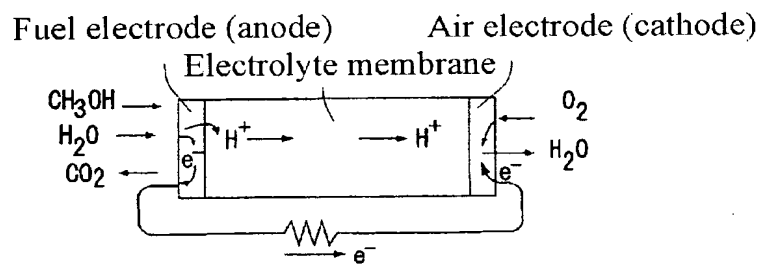


FIG.13

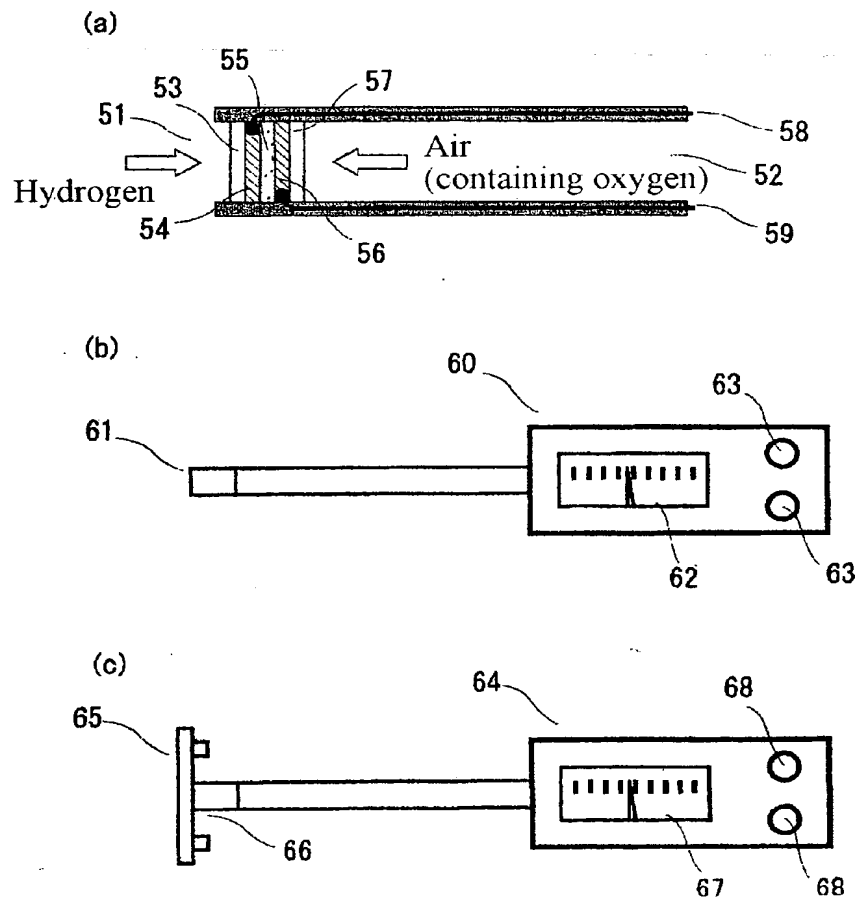


FIG.14

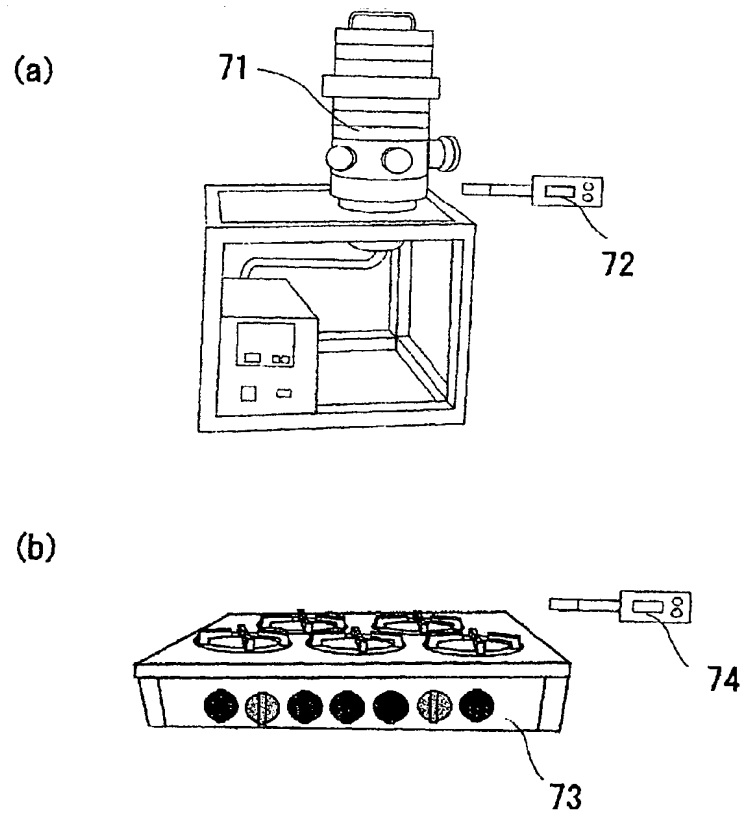


FIG.15

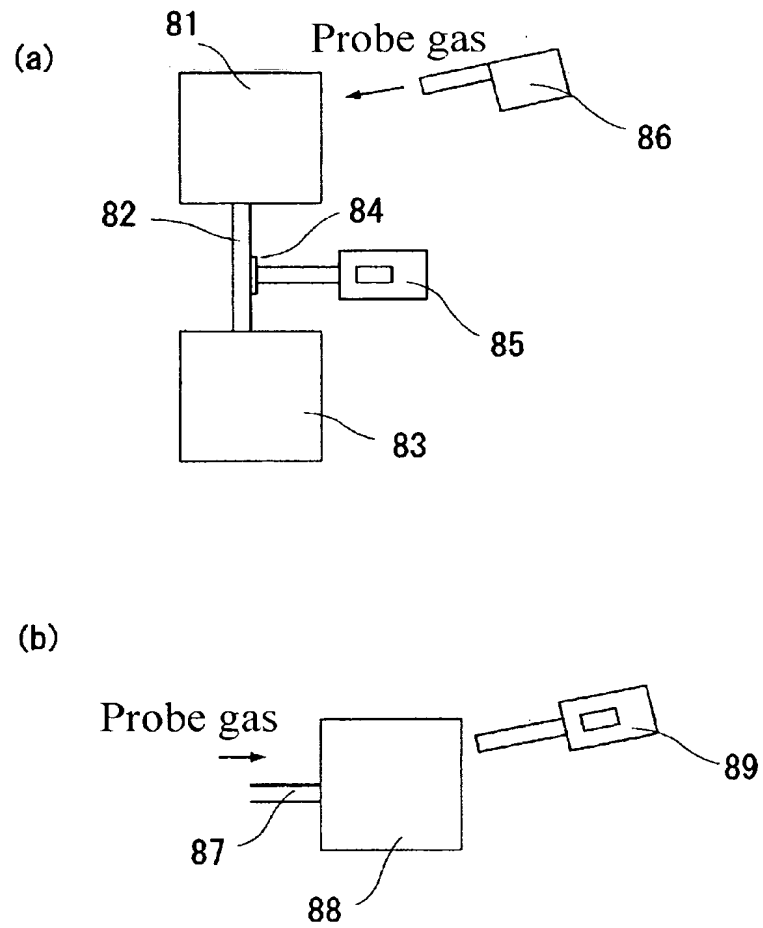


FIG.16

